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SAF-E292-83
19 September 1983

MEMORANDUM FOR: Distribution

FROM:

Chief, Quality Assurance Segment/CSPO/ODP

SUBJECT: SAFE Configuration Management

REFERENCE: a) SAFE Configuration Management Plan,
                     SF-U-CA-G-001A, 8 July 1983
                  b) SAFE Project Documentation Plan,
                     SF-U-CA-002A, 8 July 1983
                  c) SAFE Project Plan, SF-U-CA-008, 29 July 1983

        1.   The Preliminary Design Review for SAFE Delivery 2 will
be held 26-29 September 1983. This PDR represents one of a
series of baselines which are successively established to form
the basis for the SAFE development. To properly place this
forthcoming design review in perspective with the overall SAFE
development effort a summary of the baseline activity preceeding
PDR for Delivery 2 is presented for your information.

        2.   The Functional Baseline is the initial SAFE baseline and
represents the configuration on which the development
organization and the user organizations reach agreement on total
system requirements. Prior to the SAFE System Design Review
(SDR) held during February 1983, the SAFE Functional Baseline had
been established and consisted of the following documents:

            o System Requirements Specification (SRS)
            o User Interface Requirements Specification (UIRS)
            o SAFE-D Conversion Requirements Specification (CRS)
            o SAFE-D External Interface Specification
            o SAFE-C External Interface Specification

        3.   As a result of the SDR, the SAFE Allocated Baseline was
established. The Allocated Baseline represents the configuration
in which all system requirements have been allocated to a set of
subsystems in what is believed to be a realistic and achievable
system architecture. The SAFE Allocated Baseline consists of the
following documents:

            o SRS Requirements Traceability Matrix (RTM)
            o System Design Document (SDD)
            o Hardware Configuration Document (HCD)
            o SAFE-D Conversion Plan

As a result of SDR, significant architecture changes to the original SAFE system design have made changes necessary to the SDD, HCD, and the SRS RTM. These revised documents should be approved as soon as possible by the SAFE Configuration Control Board (CCB) following Preliminary Design Review (PDR) for SAFE Delivery Two.

4. While the Functional and Allocated Baselines relate to the entire system hardware/software architecture, the CSPO will establish separate Preliminary Design, Detailed Design and Product Baselines for each successive SAFE Delivery. The Preliminary Design Baseline for SAFE Delivery 2 is the subsystem configuration from which detailed design can proceed. As a result of Delivery 2 PDR, the Preliminary Design Baseline for that delivery will consist of the following documents:

o   Inter-CPCI Interface Control Document (ICD)
o   SDD Appendix 2 (Delivery two Specific System Design)
o   HCD Appendix 2 (Delivery two specific hardware configuration)
o   Message Analysis Processing (MAP) CPCI
o   User Data Base (UDB) CPCI
o   Inquire CPCI*
o   AIM Data Base CPCI*
o   Dissemination Analysis Processing (DAP) CPCI
o   SAFE-C Conversion Specification
o   Data Specification Document (DSD)

*   The Inquire CPCI preliminary design baseline will consist of a set of Infodata Design Notes. The AIM Data Base will have a preliminary design baseline consisting of material to be presented at PDR. All other CPCI's will consist of formal documentation that conforms to the content requirements of the SAFE Documentation Plan.

5. The detailed explanations of the SAFE configuration management process is presented in the SAFE Configuration Management Plan. The specifications for the documentation which supports the various SAFE baselines are defined in the SAFE Documentation Plan. Finally, the explanation of the SAFE development philosophy as well as the delivery definition and schedule is provided in the SAFE Project Plan. Any questions relative to this documentation should be addressed to

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Chief CSPO Quality Assurance Segment,

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